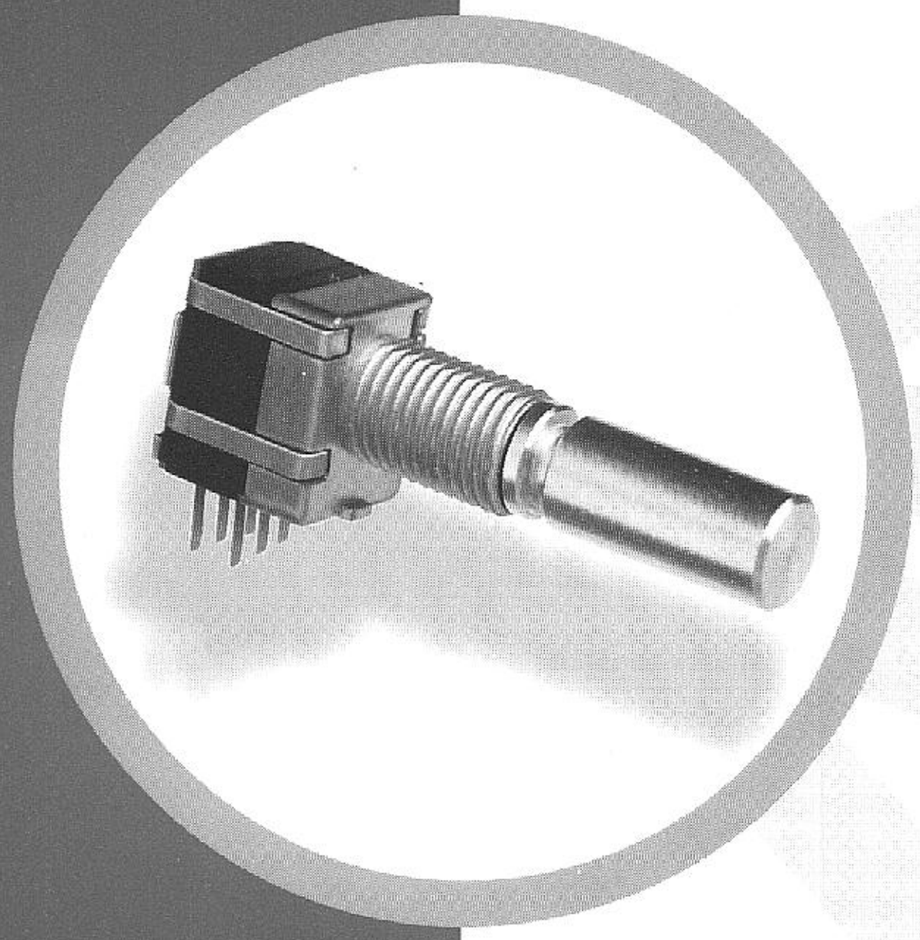
# Model 580

NEW

## Commercial Potentiometers



### FEATURES:

- *Conductive Plastic Element*
- *Smooth Feel*
- *High Rotational Life*
- *Quiet Electrical Output*
- *Robust Construction*

## Electrical

*RESISTANCE RANGE:*
200Ω to 2.5 megΩ - Linear
1.0KΩ to 1.0 megΩ - Non-linear

*RESISTANCE TOLERANCE:*
±20% standard

*LINEARITY:* ±5% Independent
(through 100K Ω)

*POWER RATING:*
Bushing Mount
0.10 Watt @ 40°C- Linear Taper
0.05 Watt @ 40°C- Non-Linear
PC Mount
0.05 Watt @ 40°C
Derate to 0 Watt @ 100°C

*MINIMUM RESISTANCE:*
10Ω Max. Each End- Linear
10Ω Max. Low End,
1% High End- Non-Linear

*MAXIMUM CONTINUOUS WORKING VOLTAGE:*
100 VAC

*DIELECTRIC WITHSTANDING VOLTAGE:*
Sea Level- 300 VAC

*DYNAMIC NOISE (CRV):*
2% of Rt Standard Linear

## Mechanical

*MATERIALS OF CONSTRUCTION:*
Housing- Molded Thermoplastic
Shaft- Metal
Wiper- Metal Contact Spring
Bushing- Metal

*CONSTRUCTION:*
Mounting- Bushing
PC
Locating Pin- @ 6 o'clock
No pin, optional
Not sealed for washing

*TERMINALS:*
Number- 3 in Line
Type- PC Pins on 0.100" Grid Standard
Strength- 2 lb Push & Pull

*MECHANICAL ROTATION:*
295° ± 5°

*TORQUE:*
Operating- 0.2 to 2.5 oz. in. @ 25°C,
0.5 oz. in. Variation in a Control
Stop- 3 in. lbs.

## Marking

Ink Stamp on Periphery or Rear
per EIA Standard

## Environmental

*STORAGE TEMPERATURE:*
-40°C to +100°C

*TEMPERATURE CYCLING:*
-40°C to +100°C
(5 cycles, 4 % Δ Rt)

*LOAD LIFE:*
1000 hrs. Rated Load @ 40°C
(10% Δ Rt)

*ROTATIONAL LOAD LIFE:*
40,000 cycles (10% Δ Rt)

**ISO 9001 CERTIFIED**

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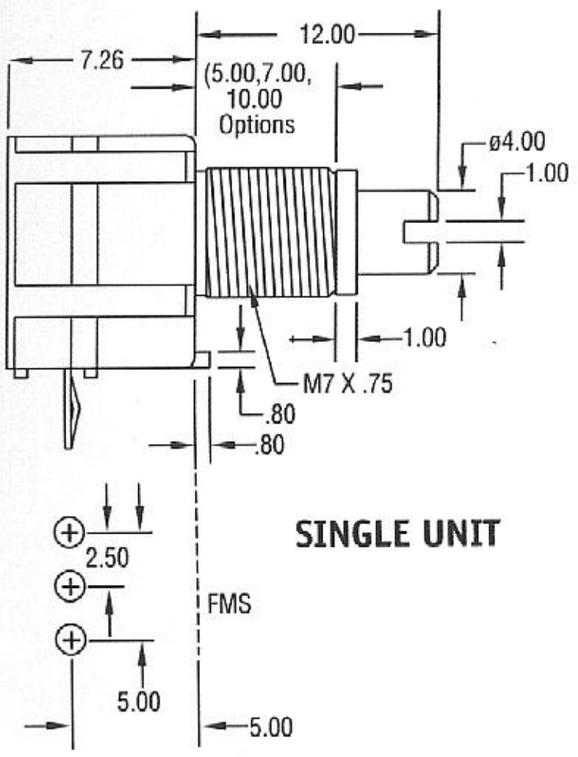
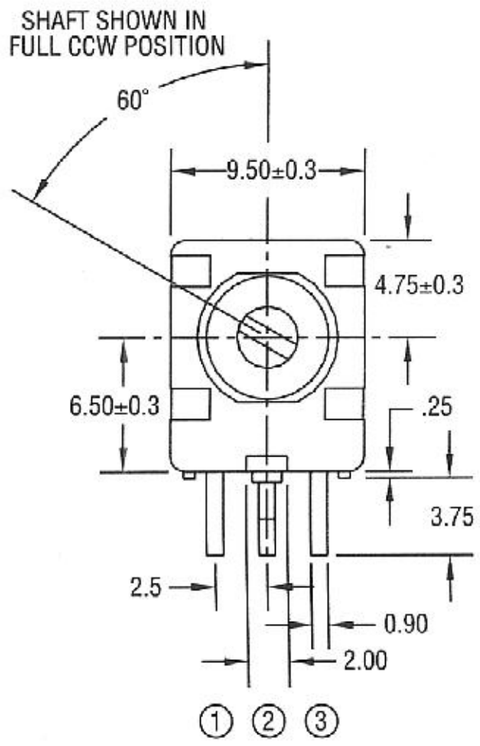
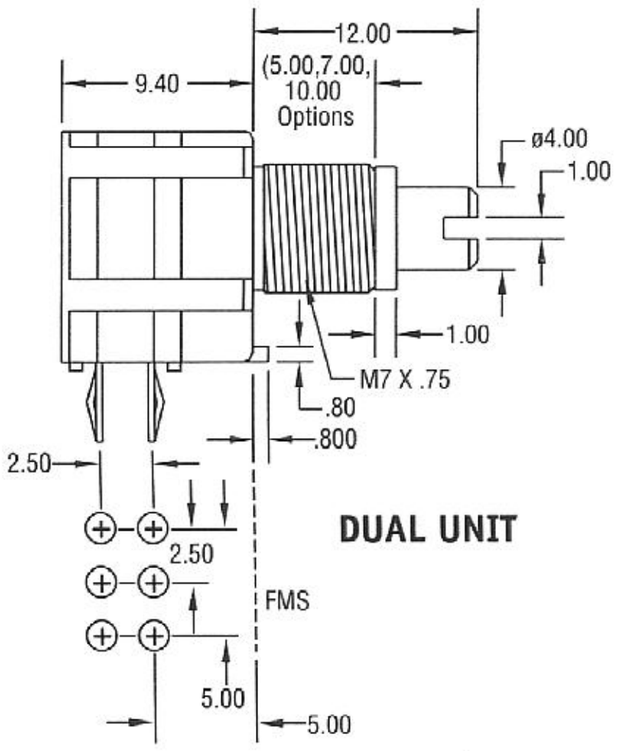
CLAROSTAT

## DIMENSIONS



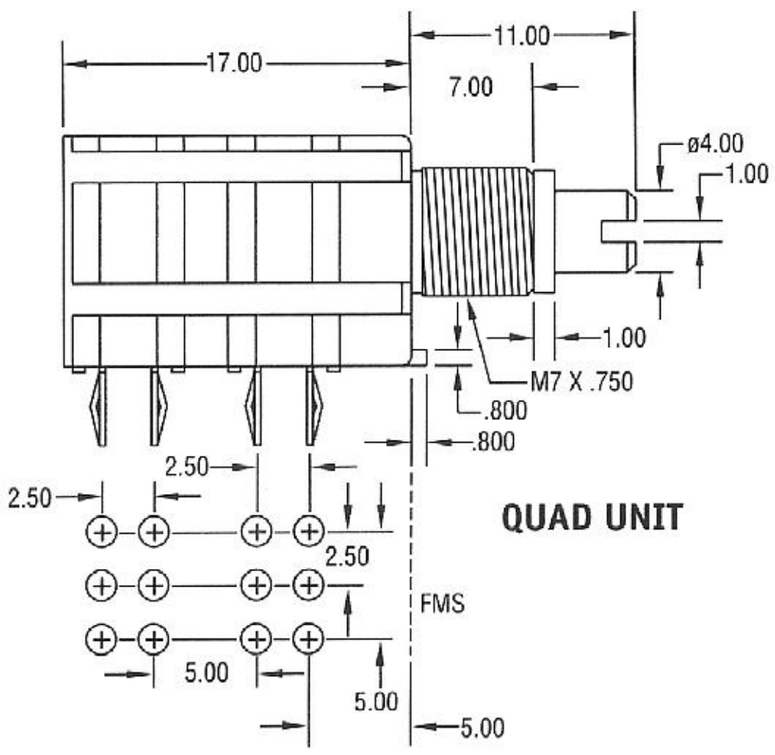

SINGLE UNIT




DUAL UNIT

All dimensions are metric. End view is the same for all styles. Other combinations are available, including, custom cables, mountings, value-add options and subassemblies. Model 580 and other Clarostat commercial potentiometers replace competitive models by Alps, Panasonic, Taiwan Alpha and others.
Call 800-874-1874 for details.




QUAD UNIT

Ask about other stock and custom Clarostat position sensing solutions, including commercial and industrial variable resistors, digital-output optical and mechanical encoders, custom position sensing elements, specialty trimmers and fixed resistors.

### CONSTRUCTION FEATURES:

- *Single Shafts:*
  *Single unit, Dual unit (one or two elements), Quad unit or Octo unit*
- *Concentric Shafts:*
  *Dual unit*
  *Quad unit*
  *Outer drives sections 3 & 4*
  *Inner drives sections 1 & 2*
- *Shaft Lengths up to 35mm*
  *Shaft Ends - Plain Rounded*
  *- Flatted*
  *- Slotted*
  *- Knurled, 18 Teeth*
- *Shaft Diameters - 3mm to 6mm*
- *Bushing - M7 X .75; 5, 7 & 10mm long*
- *Detents - Center*
  *- Other Detents, consult factory*
- *Mounting Height, PC Board to Shaft Center*
  *- 6.5mm Standard*
  *- 12.5mm optional*
- *Mounting Support Brackets-*
  *"B" Style on rear*
- *Rotary Switch - 10 mA, 12 VDC, SPST*

*Additional Styles (consult factory)*
- *Center tap*
- *Digital output*
- *Push-latch*
- *Momentary switch*
- *Vertical mounting "C" style*

## ORDERING INFORMATION

**To order or for custom applications, call 800-874-1874**

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